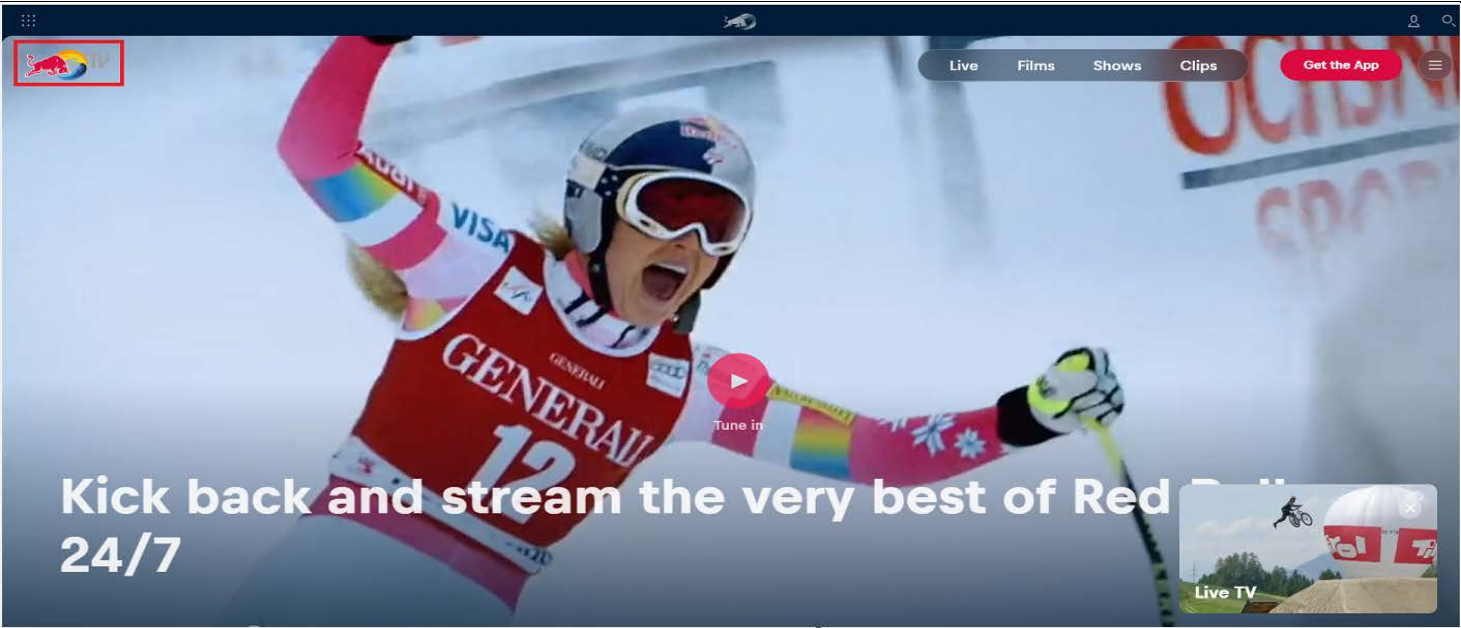


EXHIBIT C

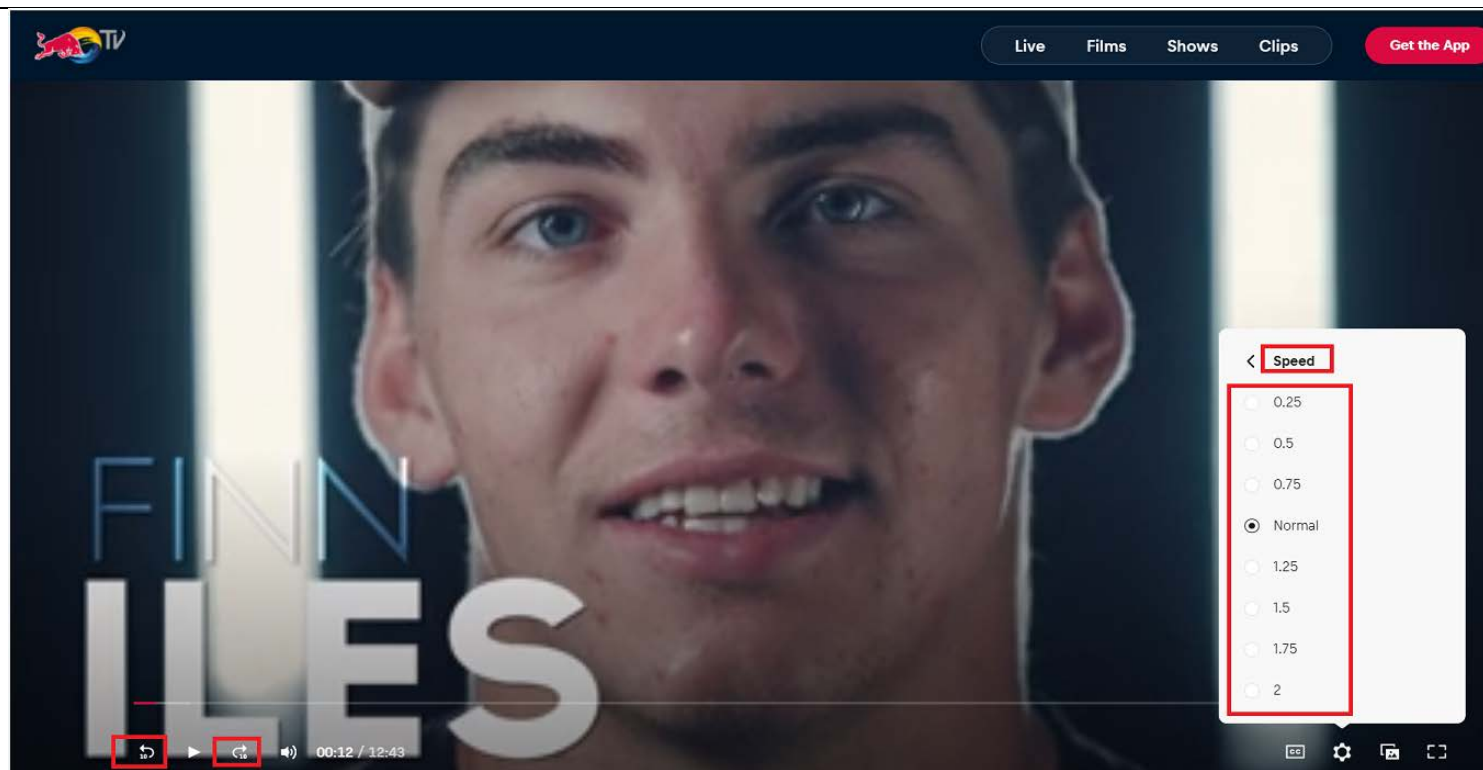
US7079752	Red Bull
<p>1. A process for recording, on a recording medium, a scrambled digital video stream, implementing the following steps, in addition to the recording of the scrambled data:</p>	<p>Red Bull supports HLS streaming protocol (“the Standard”). In addition, Red Bull utilizes HLS for delivery of contents to its customers/viewers. As shown below, a video content from Red Bull is streamed and the data traffic is captured showing the media format as HLS, the m3u8 file (e.g., the Media playlist file comprising links to content chunks in .m4s format used by HLS to contain information about the media playing), and the encryption scheme used by the streamed video. In addition, the HLS stream provided through Red Bull provides trick mode operation (e.g., 10 sec reverse and 10 sec forward trick mode or various play back speed such as 0.75, 1.25, etc.) to the streamed video.</p> <p>On information and belief, Defendant performs all steps of this claim or, alternatively, to the extent a user performs any step, Defendant conditions the user’s use of the Defendant’s accused instrumentalities using the Standard on the performance of that step as disclosed herein. For example, on information and belief, a user cannot use the accused instrumentality utilizing the Standard as described in this claim chart without performance of the steps recited in this claim. By providing the accused instrumentality utilizing the Standard as disclosed herein, Defendant also controls the manner and/or timing of the functionality described in this claim chart. In other words, for a user to utilize the functionality described in this claim chart, the steps of this claim must be performed in the manner described herein. Without performance of the steps as described herein, the Defendant’s functionality will not be available to users.</p> <p>The Standard practices a process for recording (e.g., recording by means of downloading in a storage), on a recording medium (e.g., a storage mechanism), a scrambled digital video stream (e.g., scrambled video created by making use of AES 128 encryption), implementing the following steps, in addition to the recording of the scrambled data.</p>



The image is a screenshot of a Red Bull TV website banner. It features a skier in a red and white racing suit with "GENERALI" and the number "12" on the chest, celebrating with arms raised. The skier is wearing a helmet and goggles. The background is a snowy mountain slope. In the top left corner, there is a small Red Bull TV logo. In the top right corner, there are navigation links: "Live", "Films", "Shows", "Clips", and a "Get the App" button. A "Tune in" button with a play icon is centered over the skier. At the bottom left, the text "Kick back and stream the very best of Red Bull TV 24/7" is displayed. At the bottom right, there is a small inset image showing a person on a motorcycle jumping over a ramp, with the text "Live TV" below it.

Kick back and stream the very best of Red Bull TV 24/7

<https://www.redbull.com/us-en/discover>



<https://www.redbull.com/us-en/episodes/fast-life-s5-e1>

Shown below is the URL of .m3u8 master file sent by Red Bull server which identifies the usage of HLS based streaming by Red Bull servers. The m3u8 master file refers to all the variants of the video encoded for various bandwidths and resolutions. The URL of .m3u8 master file is: https://dms.redbull.tv/v3/AA-27AGS9RY51W11/eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJjYXRIZDZ9yeSI6ImBldnNvbWFsX2NvbXB1dGVyLiwiY291bnRyeV9jb2RlIjoiaW4iLCJleHBpcmVzIjoieMjAyMi0wMy0xOVQxMToyOToxNC4xMTMwNjEzNTVaIiwibG9jYWxlIjoieZW4iLCJvc19mYW1pbHkiOiJodHRwliwicmVtb3RlX2lwIjoieMy4xMjJuNjkuMTQiLCJ1YSI6ImF4aW9zLzAuMjYuMCIsInVpZCI6ImQzYzNmYTg0LTBjOGQtNDlhYi1hOWQ0LWQwN2Y3ZDQxY2M0MiJ9.LcDnp9m_8x7tP0HIqwQywMe3Sox1dJx2ho88X3Bj-W8/playlist.m3u8

The screenshot shows the Fiddler tool interface. The top menu bar includes options like Get Started, Statistics, Inspectors, AutoResponder, Composer, Fiddler Orchestra Beta, Fiddler Script, Log, Filters, and Timeline. Below the menu is a tabbed interface with Headers, TextView, SyntaxView, WebForms, HexView, Auth, Cookies, Raw, JSON, and XML. The 'Headers' tab is active, showing the request headers for a GET request to a Red Bull video playlist. The 'Client' section shows the user agent as Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.4844.51 Safari/537.36. The 'Miscellaneous' section shows the referer as https://www.redbull.com/. The 'Security' section shows the origin as https://www.redbull.com/ and the sec-ch-ua as "Not A;Brand";v="99", "Chromium";v="99", "Google Chrome";v="99". The 'Raw' tab is also visible, showing the raw HTTP data. The response is an HTTP 200 OK with a Content-Type of application/json; charset=utf-8. The response body is a JSON object containing video metadata, including videoId, videoUrl, and videoMediaTypes. The JSON is partially obscured by a redacted line.

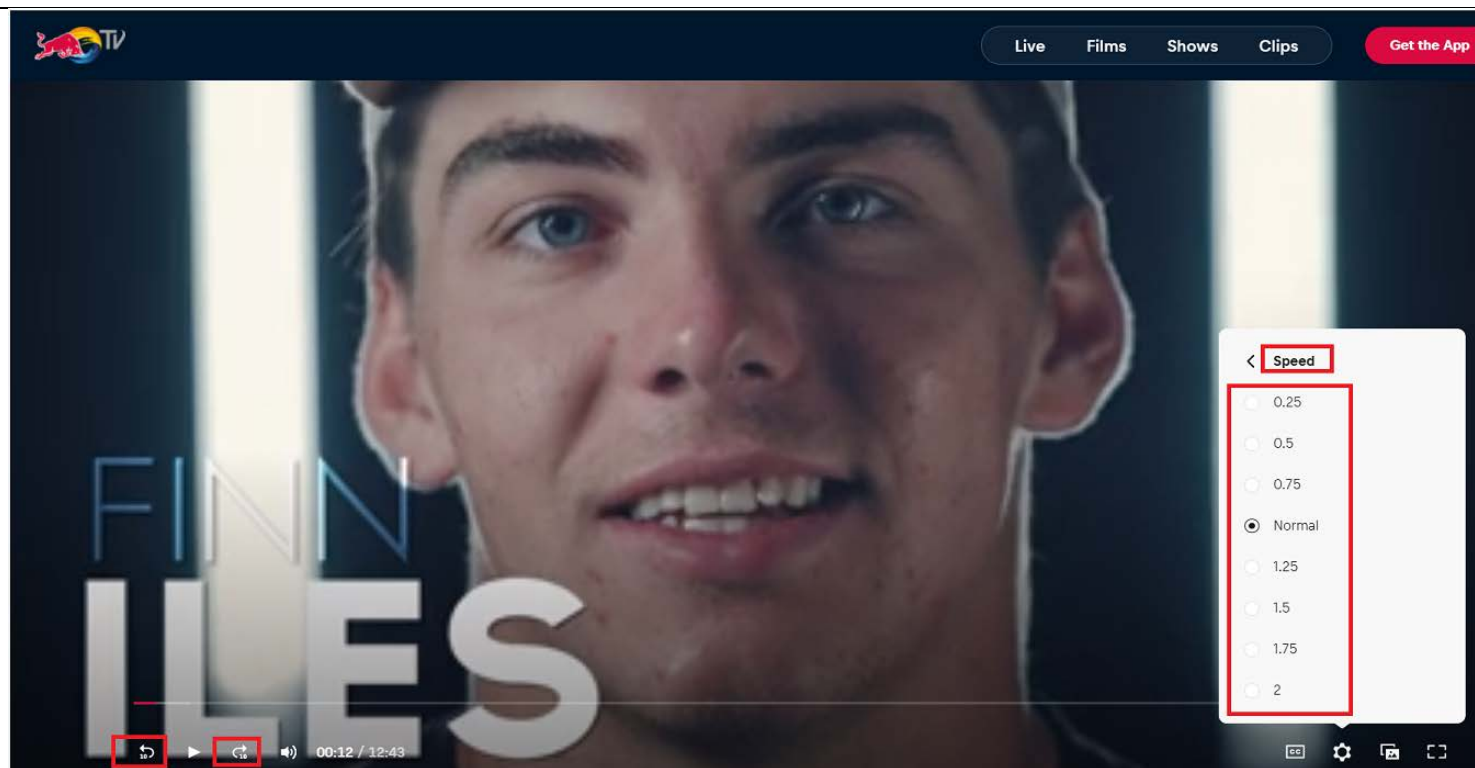
Source: Packet capturing by fiddler tool

Request Headers												[Raw]	[Header Definition]
GET /1.2.131-release-3285/tbup-conviva.min.js HTTP/1.1													
_garb_gid=GA1.2.813505183.1647331587													
_garb=GA1.2.1704964335.1647331586													
Miscellaneous													
Referer: https://www.redbull.com/													
Security													
sec-ch-ua: "Not A;Brand";v="99", "Chromium";v="99", "Google Chrome";v="99"													
sec-ch-ua-mobile: ?0													
sec-ch-ua-platform: "Windows"													
Sec-Fetch-Dest: script													
Sec-Fetch-Mode: no-cors													
Sec-Fetch-Site: same-site													
Transformer	Headers	TextView	SyntaxView	ImageView	HexView	WebView	Auth	Caching	Cookies	Raw	JSON	XML	
<pre> o=e("./utils/utils"),r=e(".././utils/browserutils/getClientId"),a=i(e("./Html5Time")),s=i(e("./Html5Timer")),l=i(e("./Html5Http")),u=i(e("./Html5Storage")),c=i(e("./Html5Metadata")),d=i(e("./Html5Logging")),g=i(e("./components/PlayerEventWrapper")),v=function(){function e(e,t){var n=this;this.player=e,this.TAG="Red Bull ConvivaAnalytics Plugin",this.debugging=!1,this.sessionStarted=!1,this.startSession=function(e){if(n.debugLog("startSession() -> ",n.config),n.config&&n.config.mediaID!=="n.currentMediaID&&(n.currentMediaID=n.config.mediaID,!n.sessionStarted)){n.sessionStarted=!0;var t=n.config.videoURL n.player.vidInfo.videoURL,i="unspecified"!==n.config.videoProductID?n.config.videoProductID:n.config.videoId,a=n.config.assetName n.config.cmsVideoName,s=n.config.videoLength,l="Untitled (no source.title/source.contentId set)",u=o.PlayerUtils.getIsVOD(n.config,n.player);"vod"===u?i&&a?l="["+i+"] "+a:i&&a?l="["+i+"]":a&&i&&(l=a):l="["+u+"] "+i,n.config.userID&&"unspecified"!==n.config.userID (n.config.userID=r.getClientId());var c=new Conviva.ContentMetadata;c.assetName=l,c.defaultResource="AKAMAI",c.playerName="bitmovin",c.isLive="vod"===u?"false":"true",c.streamType="vod"===u?Conviva.ContentMetadata.StreamType.VOD:Conviva.ContentMetadata.StreamType.LIVE,c.viewerId=n.config.userID,c.applicationName="BITMOVIN",c.duration=null!s?s:n.player.getDuration(),c.streamUrl=t,c.encodedFrameRate=-1,c.custom={appVersion:n.player.playerProps.appVersion,playerVersion:n.player.playerProps.appVersion,contentId:i,contentId:i,isAd:String(n.player.isAd()),streamStatus:n.getStreamType(u),deviceName:"Web",devicePlatform:"web",deviceType:o.BrowserUtils.isMobile().any()?Mobile:"Desktop",connectionType:"WiFi",siteUrl:o.BrowserUtils.browserURL(),streamProtocol:"HLS"},n.debugLog("startSession() -> contentMetadata",c),n.sessionKey=n.content.createSession(c),n.isValidSession(c) n.logger.consoleLog("Something went wrong, could not obtain session </pre>													
Source: Packet capturing by fiddler tool													

#	Result	Protocol	Host	URL	Body	Caching
192	200	HTTPS	clients6.google.com	/drive/v2internal/aboutto...	0	
193	200	HTTPS	www.gstatic.com	/vjs/sender/v1/cast_se...	4,272	private...
194	200	HTTP	Tunnel to	clients6.google.com:443	0	
195	200	HTTPS	www.gstatic.com	/cast/sdksender/L/0/...	36,519	private...
196	200	HTTP	Tunnel to	www.gstatic.com:443	0	
197	200	HTTPS	clients6.google.com	/drive/v2internal/changes...	0	
198	200	HTTPS	licensing.btmovin.com	/licensing	46	
199	200	HTTP	Tunnel to	clients6.google.com:443	0	
200	200	HTTPS	www.gstatic.com	/eureka/clank/99/cast_se...	53,760	public...
201	200	HTTPS	clients6.google.com	/drive/v2internal/aboutto...	7,216	no-cac...
202	200	HTTP	Tunnel to	dms.redbull.tv:443	0	
203	200	HTTP	Tunnel to	clients6.google.com:443	0	
204	200	HTTPS	clients6.google.com	/drive/v2internal/changes...	62	no-cac...
205	200	HTTPS	611d530742f809cd...	/0/vsg	0	
206	200	HTTPS	clients6.google.com	/batch/drive/v2internal?...	159	
207	200	HTTPS	clients6.google.com	/batch/drive/v2internal?...	377	no-cac...
208	200	HTTPS	dms.redbull.tv	/v3/AA-27AGS9RY5IW11...	14,533	
209	200	HTTPS	dms.redbull.tv	/dms/media/rbtv/AA-27A...	25,845	
210	200	HTTP	Tunnel to	dms.redbull.tv:443	0	
211	200	HTTPS	dms.redbull.tv	/dms/resource/rbtv/audio...	25,845	
212	200	HTTP	Tunnel to	cs.liift.io:443	0	
213	200	HTTP	Tunnel to	cs.liift.io:443	0	
214	200	HTTPS	dms.redbull.tv	/dms/media/rbtv/AA-27A...	25,845	
215	200	HTTP	Tunnel to	player.redbull.com:443	0	
216	200	HTTP	Tunnel to	www.redbull.com:443	0	
217	200	HTTP	Tunnel to	www.redbull.com:443	0	
218	200	HTTP	Tunnel to	clients6.google.com:443	0	
219	200	HTTP	Tunnel to	www.google-analytics.co...	0	
220	200	HTTP	Tunnel to	www.google-analytics.co...	0	
221	200	HTTP	Tunnel to	www.google-analytics.co...	0	
222	200	HTTP	Tunnel to	www.redbull.com:443	932	
223	200	HTTPS	cs.liift.io	/v1/RBMN/pd/2/A7/JC/E4...	21,853	max-ag...
224	200	HTTPS	cs.liift.io	/v1/RBMN/pd/98/B7/D4/F...	606	max-ag...
225	204	HTTPS	www.redbull.com	/v3/report/client-error	0	
226	204	HTTPS	www.redbull.com	/v3/report/client-error	0	
227	200	HTTPS	player.redbull.com	/1.2.131-release-3285/rb...	2,12...	max-ag...
228	200	HTTPS	clients6.google.com	/batch/drive/v2internal?...	3,355	private...
229	200	HTTPS	www.google-analyt...	/collect?v=18_v=j96aap...	35	no-cac...
230	204	HTTPS	www.redbull.com	/v3/report/client-error	0	

Source: Packet capturing by fiddler tool

Red Bull streams videos with the capability of being played with trick mode (e.g., 10 Sec reverse and 10 sec forward trick mode or various playback speed of 0.75, 1.25, etc.)



<https://www.redbull.com/us-en/episodes/fast-life-s5-e1>

Red Bull streams scrambled/encrypted content making use of AES 128 encryption.

Request Headers												[Raw]	[Header Definitions]
CONNECT cm.redbull.com:443 HTTP/1.1													
Client													
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.4844.51 Safari/537.36													
Transport													
Connection: keep-alive													
Host: cm.redbull.com:443													
Transformer	Headers	TextView	SyntaxView	ImageView	HexView	WebView	Auth	Caching	Cookies	Raw	JSON	XML	
<p>HTTP/1.1 200 Connection Established</p> <p>FiddlerGateway: Direct</p> <p>StartTime: 13:36:22.929</p> <p>Connection: close</p> <p>Encrypted HTTPS traffic flows through this CONNECT tunnel. HTTPS Decryption is enabled in Fiddler, so decrypted sessions running in this tunnel will be shown in the Web Sessions list.</p> <p>Secure Protocol: TLS12</p> <p>Cipher: Aes128 128bits</p> <p>Hash Algorithm: SHA256 256bits</p> <p>Key Exchange: ECDHE_RSA (0xae06) 255bits</p>													
Source: Packet capturing by fiddler tool													

An encryption method of AES-128 signals that Media Segments are completely encrypted using the Advanced Encryption Standard (AES) [AES_128] with a 128-bit key, Cipher Block Chaining (CBC), and Public-Key Cryptography Standards #7 (PKCS7) padding [RFC5652]. CBC is restarted on each segment boundary, using either the Initialization Vector (IV) attribute value or the Media Sequence Number as the IV; see [Section 5.2](#).

An encryption method of SAMPLE-AES means that the Media Segments contain media samples, such as audio or video, that are encrypted using the Advanced Encryption Standard [AES_128]. How these media streams are encrypted and encapsulated in a segment depends on the

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HTTP Live Streaming

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media encoding and the media format of the segment. fMP4 Media Segments are encrypted using the 'cbcs' scheme of Common Encryption [COMMON_ENC]. Encryption of other Media Segment formats containing H.264 [H_264], AAC [ISO_14496], AC-3 [AC_3], and Enhanced AC-3 [AC_3] media streams is described in the HTTP Live Streaming (HLS) Sample Encryption specification [SampleEnc]. The IV attribute MAY be present; see [Section 5.2](#).

<https://tools.ietf.org/html/rfc8216>

1. Introduction to HTTP Live Streaming

HTTP Live Streaming provides a reliable, cost-effective means of delivering continuous and long-form video over the Internet. It allows a receiver to adapt the bit rate of the media to the current network conditions in order to maintain uninterrupted playback at the best possible quality. It supports interstitial content boundaries. It provides a flexible framework for media encryption. It can efficiently offer multiple renditions of the same content, such as audio translations. It offers compatibility with large-scale HTTP caching infrastructure to support delivery to large audiences.

Since the Internet-Draft was first posted in 2009, HTTP Live Streaming has been implemented and deployed by a wide array of content producers, tools vendors, distributors, and device manufacturers. In the subsequent eight years, the protocol has been refined by extensive review and discussion with a variety of media streaming implementors.

The purpose of this document is to facilitate interoperability between HTTP Live Streaming implementations by describing the media transmission protocol. Using this protocol, a client can receive a continuous stream of media from a server for concurrent presentation.

<https://tools.ietf.org/html/rfc8216>

The first line is the format identifier tag #EXTM3U. The line containing #EXT-X-TARGETDURATION says that all Media Segments will be 10 seconds long or less. Then, three Media Segments are declared. The first and second are 9.009 seconds long; the third is 3.003 seconds.

To play this Playlist, the client first downloads it and then downloads and plays each Media Segment declared within it. The client reloads the Playlist as described in this document to discover any added segments. Data SHOULD be carried over HTTP [RFC7230], but, in general, a URI can specify any protocol that can reliably transfer the specified resource on demand.

<https://tools.ietf.org/html/rfc8216>

Playlist files contain URIs, which clients will use to make network requests of arbitrary entities. Clients SHOULD range-check responses to prevent buffer overflows. See also the Security Considerations section of "Uniform Resource Identifier (URI): Generic Syntax" [RFC3986].

<https://tools.ietf.org/html/rfc8216>

An encryption method of AES-128 signals that Media Segments are completely encrypted using the Advanced Encryption Standard (AES) [AES_128] with a 128-bit key, Cipher Block Chaining (CBC), and Public-Key Cryptography Standards #7 (PKCS7) padding [RFC5652]. CBC is restarted on each segment boundary, using either the Initialization Vector (IV) attribute value or the Media Sequence Number as the IV; see [Section 5.2](#).

An encryption method of SAMPLE-AES means that the Media Segments contain media samples, such as audio or video, that are encrypted using the Advanced Encryption Standard [AES_128]. How these media streams are encrypted and encapsulated in a segment depends on the

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media encoding and the media format of the segment. fMP4 Media Segments are encrypted using the 'cbcs' scheme of Common Encryption [COMMON_ENC]. Encryption of other Media Segment formats containing H.264 [H_264], AAC [ISO_14496], AC-3 [AC_3], and Enhanced AC-3 [AC_3] media streams is described in the HTTP Live Streaming (HLS) Sample Encryption specification [SampleEnc]. The IV attribute MAY be present; see [Section 5.2](#).

<https://tools.ietf.org/html/rfc8216>

RFC 8216

HTTP Live Streaming

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5. Key Files

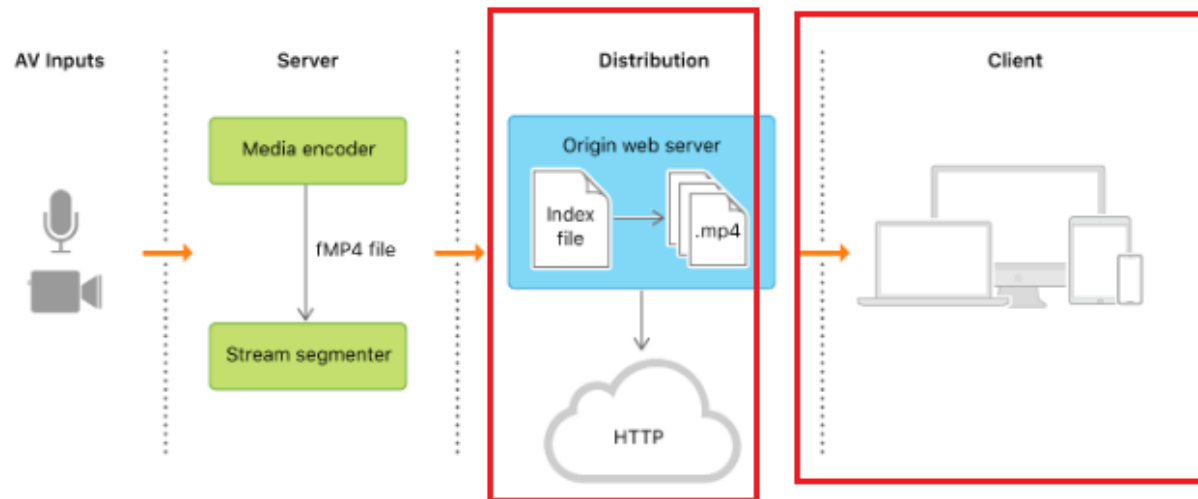
5.1. Structure of Key Files

An EXT-X-KEY tag with a URI attribute identifies a Key file. A Key file contains a cipher key that can decrypt Media Segments in the Playlist.

[AES_128] encryption uses 16-octet keys. If the KEYFORMAT of an EXT-X-KEY tag is "identity", the Key file is a single packed array of 16 octets in binary format.

<https://tools.ietf.org/html/rfc8216>

The following figure shows the components of an HTTP Live Stream.



Apple provides several frameworks that support HTTP Live Streaming, including [AVKit](#), [AVFoundation](#), and [WebKit](#).

https://developer.apple.com/documentation/http_live_streaming

	<p>Latency is cumulative, hence it is added along the whole delivery path from transcoding to the client through the CDN (packaging/origin and caching). Yet, as of today, most of the latency comes from the client: <u>Due to the operation of the protocol (HLS or DASH), and the request/response cycles necessary to obtain the media segments, clients have to maintain a large enough buffer to ensure smooth playback. As an example, an Apple HLS client will start playback once it has buffered at least two segments, resulting in observed latency ranging from 5 to 18 seconds depending on segment durations (2 to 6 seconds).</u></p> <p>To address these issues, both standards have proposed low-latency extensions altering the delivery to the client so that the client can reduce the size of its buffers its buffer sizes:</p> <ul style="list-style-type: none"> ✓ On one side, DASH has built a proposal relying on CMAF combined with HTTP/1.1 chunked transfer encoding to limit the latency induced by the packaging step, with minimal changes on the player side. <p>https://broadpeak.tv/blog/how-apple-hls-is-strengthening-its-hand-in-the-abr-game-with-ll-hls/</p>
<p>descrambling of said scrambled data of said stream so as to extract therefrom additional data corresponding to information required by at</p>	<p>The HLS standard practices descrambling (e.g., decrypting the received encrypted video segments) of said scrambled data of said stream (e.g., scrambled video segments) so as to extract therefrom additional data (e.g., information related to the video segments for trick mode) corresponding to information required by a function of the special mode or “trick mode.”</p>

least one function of the special mode or “trick mode” (fast forward, fast rewind, accelerated motion, slow motion, etc.); and

Request Headers

[Raw] [Header Definitions]

CONNECT cm.redbull.com:443 HTTP/1.1

Client

User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.4844.51 Safari/537.36

Transport

Connection: keep-alive

Host: cm.redbull.com:443

Transformer

Headers

TextView

SyntaxView

ImageView

HexView

WebView

Auth

Caching

Cookies

Raw

JSON

XML

HTTP/1.1 200 Connection Established

FiddlerGateway: Direct

StartTime: 13:36:22.929

Connection: close

Encrypted HTTPS traffic flows through this CONNECT tunnel. HTTPS Decryption is enabled in Fiddler, so decrypted sessions running in this tunnel will be shown in the Web Sessions list.

Secure Protocol: TLS12

Cipher: Aes128 128bits

Hash Algorithm: SHA256 256bits

Key Exchange: ECDHE_RSA (0xae06) 255bits

Source: Packet capturing by fiddler tool

Decryption :

The stages in the rounds can be easily undone as these stages have an opposite to it which when performed reverts the changes. Each 128 blocks goes through the 10, 12 or 14 rounds depending on the key size.

The stages of each round in decryption is as follows :

- Add round key
- Inverse MixColumns
- ShiftRows
- Inverse SubByte

The decryption process is the encryption process done in reverse so i will explain the steps with notable differences.

<https://www.geeksforgeeks.org/advanced-encryption-standard-aes/>

Inverse MixColumns :

This step is similar to the MixColumns step in encryption, but differs in the matrix used to carry out the operation.

$$\begin{bmatrix} b_0 \\ b_1 \\ b_2 \\ b_3 \end{bmatrix} = \begin{bmatrix} 14 & 11 & 13 & 9 \\ 9 & 14 & 11 & 13 \\ 13 & 9 & 14 & 11 \\ 11 & 13 & 9 & 14 \end{bmatrix} \begin{bmatrix} c_0 \\ c_1 \\ c_2 \\ c_3 \end{bmatrix}$$

Inverse SubBytes :

Inverse S-box is used as a lookup table and using which the bytes are substituted during decryption.

<https://www.geeksforgeeks.org/advanced-encryption-standard-aes/>

Get Started Statistics Inspectors AutoResponder Composer Fiddler Orchestra Beta FiddlerScript Log Filters Timeline

Headers TextView SyntaxView WebForms HexView Auth Cookies Raw JSON XML

Request Headers [Raw] [Header Definitions]

GET /1.2.131-release-3285/tbup-com-skin.min.js HTTP/1.1

_garb_gid=GA1.2.813505183.1647331587
_garb=GA1.2.1704964335.1647331586

Miscellaneous
Referer: <https://www.redbull.com/>

Security
sec-ch-ua: "Not A;Brand";v="99", "Chromium";v="99", "Google Chrome";v="99"
sec-ch-ua-mobile: ?0

Transformer Headers TextView SyntaxView ImageView HexView WebView Auth Caching Cookies Raw JSON XML

```

    _blank"))},e.active&&this.active()updateInfo(t){this.info.innerHTML=t}showToggle(){this.toggleVisible=!0,this.toggle.classList.remove(
    this.prefix("hide")),this.hasSubs&&this.subArrow.classList.add(this.prefix("hide")),this.hasInfo&&this.info.classList.add(this.prefix("
    hide"))hideToggle(){this.toggleVisible=!1,this.toggle.classList.add(this.prefix("hide")),this.hasSubs&&this.subArrow.classList.remove(
    this.prefix("hide")),this.hasInfo&&this.info.classList.remove(this.prefix("hide"))toggleOn(){this.toggle.classList.add(this.prefix("on"))
    }toggleOff(){this.toggle.classList.remove(this.prefix("on"))}var o=s;n.default=o,{"../BaseComponent":33}],66:[function(t,e,n){"use
    strict";Object.defineProperty(n,"__esModule",{value:!0}),n.default=void 0;var r=t("../../_helpers"),i=t("../../_utils"),s=a(t("../..
    /../constants/states")),o=a(t("../Menu"));function a(t){return t&&t.__esModule?t:(default:t)}var l=class{constructor(t,e={parent:null}){
    this.plyr=t,this.parent=e.parent,this.postSocial=r.postSocial,this.playerSize=this.plyr.getVerbosePlayerSize(),this.menu=null,this.
    _translate=this._translate.bind(this),this.setTranslationsReadyListener()setTranslationsReadyListener(){const t=this._initMenu();this.
    setMenu(t)}_initMenu(){const t={};return t.main={items:[{name:this._translate("menu.quality"),id:"quality",hasSubs:!0,hasInfo:!0},{name:
    this._translate("menu.captions"),id:"captions",hasSubs:!0,hasInfo:!0,hasToggle:!0,toggleFunc:t=>{const e=this.plyr.getCaption(),n=this.
    plyr.getAvailableCaptions();null===e.id?(this.plyr.setCaption(n[1].id),t.toggleOn()):{this.plyr.setCaption(null),t.toggleOff()}}},{name:
    this._translate("menu.audioTracks"),id:"audioTracks",hasSubs:!0,hasInfo:!0},{name:this._translate("menu.sharing"),id:"sharing",hasSubs:!0}
    ],{name:this._translate("menu.feedback"),id:"feedback",type:"link",url:"https://feedback.redbull.com/hc/en-us/requests/new"}],current:!0},
    t.quality={name:this._translate("menu.quality"),subPage:!0,parentPage:"main",clickFunc:t=>{this.plyr.setVideoQuality(t.id),this.
    _fastRenditionSwitch()}},this.plyr.isLive()&&this.plyr.isDvr()||this.plyr.isLive()?(t.main.items.splice(1,0,{name:this._translate("menu.
    speeds"),id:"speeds",hasSubs:!0,hasInfo:!0}),t.speeds={name:this._translate("menu.speeds"),subPage:!0,parentPage:"main",clickFunc:t=>{
    this.plyr.setPlaybackSpeed(t.id)}}):this._populateSpeeds()=>{t.captions={name:this._translate("menu.captions"),subPage:!0,parentPage:"
    main",clickFunc:t=>{this.plyr.setCaption(t.id)}},t.audioTracks={name:this._translate("menu.audioTracks"),subPage:!0,parentPage:"main",
    clickFunc:t=>{this.plyr.setAudio(t.id)}},this.setSharingMenuItem(t),t.setMenu(t){this.menu=new o.default(this.plyr,{parent:this.parent,
    menus:t}),this.readyListener({populate:!0}),this.setEventListener()setSharingMenuItem(t,e=!0){const n=[],r=["embed","link"];e&&(n.push({
    name:this._translate("menu.playFrom"),id:"playFrom",type:"checkbox",hasDivider:!0,hasInput:!0}),r.unshift("playFrom"),n.push({name:this.
    _translate("menu.embed"),id:"embed",type:"icon",hasCopy:!0});const s=Object.entries(this._translate("social"));s&&s.forEach((t=>{n.push({
  
```

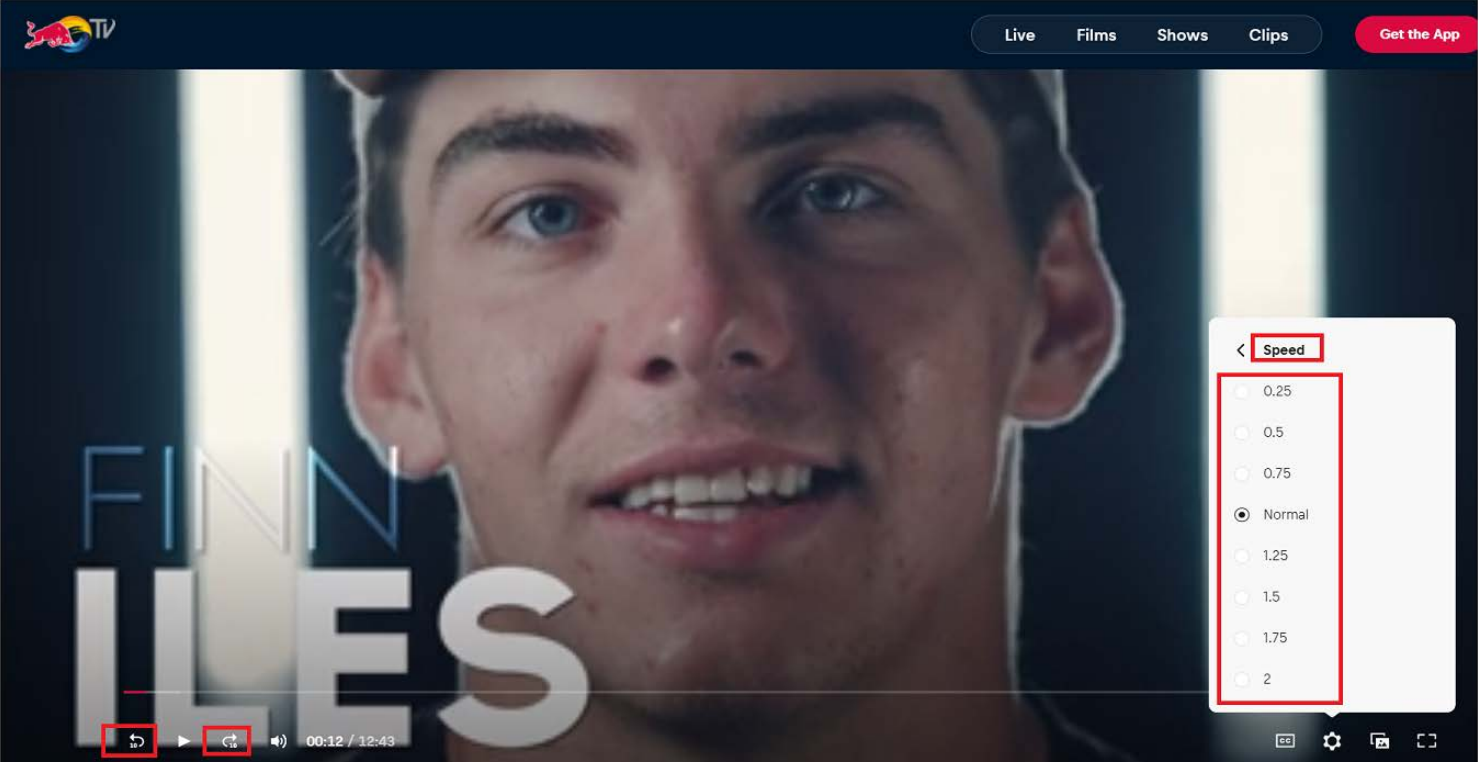
Source: Packet Capturing by Fiddler Tool

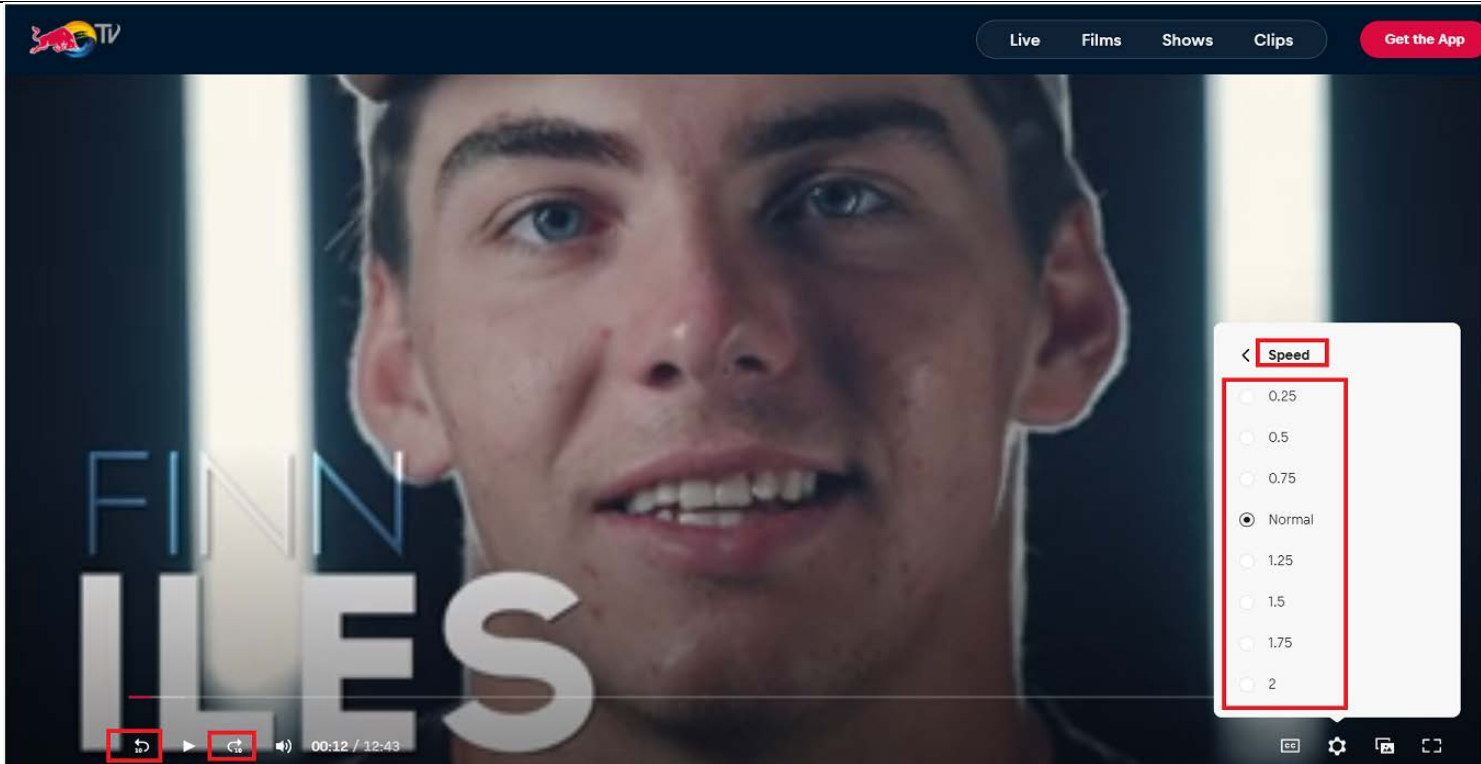
Request Headers												[Raw]	[Header Definition]
GET /1.2.131-release-3285/rbup-com-skin.min.js HTTP/1.1													
_garb_gid=GA1.2.813505183.1647331587													
_garb=GA1.2.1704964335.1647331586													
Miscellaneous													
Referer: https://www.redbull.com/													
Security													
sec-ch-ua: "Not A;Brand";v="99", "Chromium";v="99", "Google Chrome";v="99"													
sec-ch-ua-mobile: ?0													
Transformer	Headers	TextView	SyntaxView	ImageView	HexView	WebView	Auth	Caching	Cookies	Raw	JSON	XML	
<pre> ON_SUBTITLE_CHANGED,this._updateCaptions.bind(this)),this.plyr.on(t.ON_CAST_STARTED,this._populateCaptions.bind(this)), this.plyr.on(t.ON_AUDIO_ADDED,this._populateAudioTracks.bind(this)),this.plyr.on(t.ON_AUDIO_CHANGED,this. _updateAudioTracks.bind(this))}isHovered(){return!!this.menu&&this.menu.isHovered()}refresh(){this.menu&&this.menu. refresh()}_translate(t){return this.plyr.getTranslation(t)}_fastRenditionSwitch(){const t=this.plyr;let e=e=this.plyr. isDvr()?t.getTimeShift():t.getPosition(),t.seek(e-1),t.seek(e)}_populateQualities(){const t=this.plyr. getAvailableVideoQualities();t.reverse(),this.menu.menus.quality.clearList();const e=this.menu.menus.main.getItem(" quality");t.length<2?e.hide():e.show();const n=[];n.push({name:this.plyr.getTranslation("autoRendition"),id:"auto",type:" radio"}),t.forEach((t=>{const e=Math.round(t.frameRate);let r="";e>35&&(r=e);let i=`\${t.height}p\${r}`;t.height&&t.height> =720&&(i+=" HD"),n.push({name:i,id:t.id,type:"radio"})})),this.menu.menus.quality.generateList(n),this._updateQualities() }_updateQualities(){const t=this.plyr.getVideoQuality();this.menu.menus.quality.updateCurrent(t.id);const e=this.plyr. getPlaybackVideoData(),n=this._getFPSStr(e);let r=e&&e.height>0?`Auto \${e.height}p\${n}`:"Auto";e&&e.height&&e.height>= 720&&(r+=" HD"),t.height&&(r=`\${t.height}p`,t.height&&t.height>=720&&(r+=" HD")),this.menu.menus.main.getItem("quality"). updateInfo(r)}_getFPSStr(t){let e="";const n=this.plyr.getAvailableVideoQualities();for(let r=n.length-1;r>=0;r--){const i=n[r];i.frameRate>35&&i.height===t.height&&(e=Math.round(i.frameRate))}return e}_populateSpeeds(){this.menu.menus. speeds.clearList();this.menu.menus.speeds.generateList([{"name":"0.25",id:.25,type:"radio"},{"name":"0.5",id:.5,type:"radio"}, {name:"0.75",id:.75,type:"radio"},{name:"Normal",id:1,type:"radio"},{name:"1.25",id:1.25,type:"radio"},{name:"1.5",id:1. 5,type:"radio"},{name:"1.75",id:1.75,type:"radio"},{name:"2",id:2,type:"radio"}]),this._updateSpeeds()}_updateSpeeds(){ const t=this.plyr.getPlaybackSpeed();this.menu.menus.speeds.updateCurrent(t);let e="Normal";1!==t&&(e=t),this.menu.menus. main.getItem("speeds").updateInfo(e)}_populateCaptions(){const t=this.plyr.getAvailableCaptions(),e=this.menu.menus.main. getItem("captions");this.menu.menus.captions.clearList(),t.length<2 this._testHideSize()?e.hide():e.show(),2===t.length? e.showToggle():e.hideToggle();const n=[];t.forEach((t=>{n.push({name:t.label.charAt(0).toUpperCase()+t.label.slice(1),id: </pre>													

Source: Packet Capturing by Fiddler Tool

Request Headers												[Raw]	[Header Definition]
GET /1.2.131-release-3285/rbup.min.js HTTP/1.1													
Accept: */*													
Accept-Encoding: gzip, deflate, br													
Accept-Language: en-US,en;q=0.9													
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.4844.51 Safari/537.36													
Miscellaneous													
Referer: https://www.redbull.com/													
Security													
Transformer	Headers	TextView	SyntaxView	ImageView	HexView	WebView	Auth	Caching	Cookies	Raw	JSON	XML	
<pre> value:!0}},i.default=void 0;var n=function(){return this.player.getTimeShift();i.default=n},{}},35:[function(e,t,i){"use strict";Object.defineProperty(i,"__esModule",{value:!0}),i.default=void 0;var n=function(){return this.player.getVRStatus()};i.default=n},{}},36:[function(e,t,i){"use strict";Object.defineProperty(i,"__esModule",{value:!0}),i.default=void 0; var n=function(){return this.player.vr.getStereo();i.default=n},{}},37:[function(e,t,i){"use strict";Object. defineProperty(i,"__esModule",{value:!0}),i.default=void 0;var n=function(...e){return this.states=this.states?this. states:{verbosePlayerSize:null},this.states.verbosePlayerSize=e.length?e[0]:this.states.verbosePlayerSize,this.getSt verbosePlayerSize};i.default=n},{}},38:[function(e,t,i){"use strict";Object.defineProperty(i,"__esModule",{value:!0}),i. default=void 0;var n=function(e=null){return e?this.vidMeta[e]:this.vidMeta};i.default=n},{}},39:[function(e,t,i){"use strict";Object.defineProperty(i,"__esModule",{value:!0}),i.default=void 0;var n=function(e=null){return e?this.vidProps[e] :this.vidProps};i.default=n},{}},40:[function(e,t,i){"use strict";Object.defineProperty(i,"__esModule",{value:!0}),i. default=void 0;var n=function(){return this.player.getVideoBufferLength();i.default=n},{}},41:[function(e,t,i){"use strict";Object.defineProperty(i,"__esModule",{value:!0}),i.default=void 0;var n=function(){return this.player. getVideoElement();i.default=n},{}},42:[function(e,t,i){"use strict";Object.defineProperty(i,"__esModule",{value:!0}),i. default=void 0;var n=function(){return this.player.getVideoQuality();i.default=n},{}},43:[function(e,t,i){"use strict"; Object.defineProperty(i,"__esModule",{value:!0}),i.default=void 0;var n=function(){return this.player.getVolume();i. default=n},{}},44:[function(e,t,i){"use strict";Object.defineProperty(i,"__esModule",{value:!0}),i.default=void 0;var n= _t(e("./destroy")),a=_t(e("./fastForward")),r=_t(e("./load")),u=_t(e("./pause")),o=_t(e("./play")),s=e("./prefix"),l=_t(e("./rewind")),d=_t(e("./seek")),c=_t(e("./stop")),f=_t(e("./unload")),v=_t(e("./ad/imaAdManagerReady")),h=_t(e("./ad/ scheduleAd")),p=_t(e("./ad/skipAd")),g=_t(e("./get/getAudio")),_=t(e("./get/getAudioBufferLength")),y=_t(e("./get/ getAudioQuality")),E=_t(e("./get/getAutostart")),b=_t(e("./get/getAvailableAudio")),P=_t(e("./get/ getAvailableAudioQualities")),O=_t(e("./get/getAvailableCaptions")),m=_t(e("./get/getAvailableVideoQualities")),S=_t(e("./ get/getBufferPercentage")),M=_t(e("./get/getCaption")),A=_t(e("./get/getDuration")),N=_t(e("./get/getEl")),T=_t(e("./get/ getManifest")),C=_t(e("./get/getMaxTimeShift")),j=_t(e("./get/getPlaybackSpeed")),D=_t(e("./get/getPlaybackVideoData")),L= </pre>													

Source: Packet Capturing by Fiddler Tool

	 <p>https://www.redbull.com/us-en/episodes/fast-life-s5-e1</p>
<p>recording of these additional data on the recording medium.</p>	<p>The product complying with the Standard practices recording of these additional data on the recording medium (e.g., downloading/buffering trick play information to enable trick play mode rendering).</p> <p>The product must store the data pertaining to trick modes to allow the playback of the video in trick modes.</p>



The screenshot shows a video player interface for Red Bull TV. The main video area displays a close-up of a man's face, with the text "FINN ILES" overlaid in large, stylized letters. A speed control menu is open on the right side of the video, showing options: 0.25, 0.5, 0.75, Normal (selected), 1.25, 1.5, 1.75, and 2. The playback controls at the bottom include a play button, a progress bar, and a timestamp of 00:12 / 12:43. The URL <https://www.redbull.com/us-en/episodes/fast-life-s5-e1> is displayed below the video player.

<https://www.redbull.com/us-en/episodes/fast-life-s5-e1>

Get Started Statistics Inspectors AutoResponder Composer Fiddler Orchestra Beta FiddlerScript Log Filters Timeline

Headers TextView SyntaxView WebForms HexView Auth Cookies Raw JSON XML

Request Headers [Raw] [Header Definitions]

GET /1.2.131-release-3285/tbup-com-skin.min.js HTTP/1.1

_garb_gid=GA1.2.813505183.1647331587
_garb=GA1.2.1704964335.1647331586

Miscellaneous
Referer: <https://www.redbull.com/>

Security
sec-ch-ua: "Not A;Brand";v="99", "Chromium";v="99", "Google Chrome";v="99"
sec-ch-ua-mobile: ?0

Transformer Headers TextView SyntaxView ImageView HexView WebView Auth Caching Cookies Raw JSON XML

```

    _blank"))},e.active&&this.active()updateInfo(t){this.info.innerHTML=t}showToggle(){this.toggleVisible=!0,this.toggle.classList.remove(
    this.prefix("hide")),this.hasSubs&&this.subArrow.classList.add(this.prefix("hide")),this.hasInfo&&this.info.classList.add(this.prefix("
    hide"))hideToggle(){this.toggleVisible=!1,this.toggle.classList.add(this.prefix("hide")),this.hasSubs&&this.subArrow.classList.remove(
    this.prefix("hide")),this.hasInfo&&this.info.classList.remove(this.prefix("hide"))toggleOn(){this.toggle.classList.add(this.prefix("on"))
    }toggleOff(){this.toggle.classList.remove(this.prefix("on"))}var o=s;n.default=o,{"../BaseComponent":33}],66:[function(t,e,n){"use
    strict";Object.defineProperty(n,"__esModule",{value:!0}),n.default=void 0;var r=t("../../_helpers"),i=t("../../_utils"),s=a(t("../..
    /../constants/states")),o=a(t("../Menu"));function a(t){return t&&t.__esModule?t:{default:t}}var l=class{constructor(t,e={parent:null}){
    this.plyr=t,this.parent=e.parent,this.postSocial=r.postSocial,this.playerSize=this.plyr.getVerbosePlayerSize(),this.menu=null,this
    _translate=this._translate.bind(this),this.setTranslationsReadyListener()setTranslationsReadyListener(){const t=this._initMenu();this
    .setMenu(t)}_initMenu(){const t={};return t.main={items:[{name:this._translate("menu.quality"),id:"quality",hasSubs:!0,hasInfo:!0},{name:
    this._translate("menu.captions"),id:"captions",hasSubs:!0,hasInfo:!0,hasToggle:!0,toggleFunc:t=>{const e=this.plyr.getCaption(),n=this
    .plyr.getAvailableCaptions();null===e.id?(this.plyr.setCaption(n[1].id),t.toggleOn()):{this.plyr.setCaption(null),t.toggleOff()}}},{name:
    this._translate("menu.audioTracks"),id:"audioTracks",hasSubs:!0,hasInfo:!0},{name:this._translate("menu.sharing"),id:"sharing",hasSubs:!0}
    ],{name:this._translate("menu.feedback"),id:"feedback",type:"link",url:"https://feedback.redbull.com/hc/en-us/requests/new"}],current:!0},
    t.quality={name:this._translate("menu.quality"),subPage:!0,parentPage:"main",clickFunc:t=>{this.plyr.setVideoQuality(t.id),this
    _fastRenditionSwitch()}},this.plyr.isLive()&&this.plyr.isDvr()||this.plyr.isLive()?(t.main.items.splice(1,0,{name:this._translate("menu
    speeds"),id:"speeds",hasSubs:!0,hasInfo:!0}),t.speeds={name:this._translate("menu.speeds"),subPage:!0,parentPage:"main",clickFunc:t=>{
    this.plyr.setPlaybackSpeed(t.id)}}):this._populateSpeeds()=>{t.captions={name:this._translate("menu.captions"),subPage:!0,parentPage:"
    main",clickFunc:t=>{this.plyr.setCaption(t.id)}},t.audioTracks={name:this._translate("menu.audioTracks"),subPage:!0,parentPage:"main",
    clickFunc:t=>{this.plyr.setAudio(t.id)}},this.setSharingMenuItem(t),t.setMenu(t){this.menu=new o.default(this.plyr,{parent:this.parent,
    menus:t}),this.readyListener({populate:!0}),this.setEventListener()setSharingMenuItem(t,e=!0){const n=[],r=["embed","link"];e&&(n.push({
    name:this._translate("menu.playFrom"),id:"playFrom",type:"checkbox",hasDivider:!0,hasInput:!0}),r.unshift("playFrom"),n.push({name:this
    _translate("menu.embed"),id:"embed",type:"icon",hasCopy:!0});const s=Object.entries(this._translate("social"));s&&s.forEach((t=>{n.push({
  
```

Source: Packet Capturing by Fiddler Tool

Request Headers												[Raw]	[Header Definition]
GET /1.2.131-release-3285/rbup-com-skin.min.js HTTP/1.1													
_garb_gid=GA1.2.813505183.1647331587													
_garb=GA1.2.1704964335.1647331586													
Miscellaneous													
Referer: https://www.redbull.com/													
Security													
sec-ch-ua: "Not A;Brand";v="99", "Chromium";v="99", "Google Chrome";v="99"													
sec-ch-ua-mobile: ?0													
Transformer	Headers	TextView	SyntaxView	ImageView	HexView	WebView	Auth	Caching	Cookies	Raw	JSON	XML	
<pre> ON_SUBTITLE_CHANGED,this._updateCaptions.bind(this)),this.plyr.on(t.ON_CAST_STARTED,this._populateCaptions.bind(this)), this.plyr.on(t.ON_AUDIO_ADDED,this._populateAudioTracks.bind(this)),this.plyr.on(t.ON_AUDIO_CHANGED,this. _updateAudioTracks.bind(this))}isHovered(){return!!this.menu&&this.menu.isHovered()}refresh(){this.menu&&this.menu. refresh()}_translate(t){return this.plyr.getTranslation(t)}_fastRenditionSwitch(){const t=this.plyr;let e=e=this.plyr. isDvr()?t.getTimeShift():t.getPosition(),t.seek(e-1),t.seek(e)}_populateQualities(){const t=this.plyr. getAvailableVideoQualities();t.reverse(),this.menu.menus.quality.clearList();const e=this.menu.menus.main.getItem(" quality");t.length<2?e.hide():e.show();const n=[];n.push({name:this.plyr.getTranslation("autoRendition"),id:"auto",type:" radio"}),t.forEach((t=>{const e=Math.round(t.frameRate);let r="";e>35&&(r=e);let i=`\${t.height}p\${r}`;t.height&&t.height> =720&&(i+=" HD"),n.push({name:i,id:t.id,type:"radio"})})),this.menu.menus.quality.generateList(n),this._updateQualities() }_updateQualities(){const t=this.plyr.getVideoQuality();this.menu.menus.quality.updateCurrent(t.id);const e=this.plyr. getPlaybackVideoData(),n=this._getFPSStr(e);let r=e&&e.height>0?`Auto \${e.height}p\${n}`:"Auto";e&&e.height&&e.height>= 720&&(r+=" HD"),t.height&&(r=`\${t.height}p`,t.height&&t.height>=720&&(r+=" HD")),this.menu.menus.main.getItem("quality"). updateInfo(r)}_getFPSStr(t){let e="";const n=this.plyr.getAvailableVideoQualities();for(let r=n.length-1;r>=0;r--){const i=n[r];i.frameRate>35&&i.height===t.height&&(e=Math.round(i.frameRate))}return e}_populateSpeeds(){this.menu.menus. speeds.clearList();this.menu.menus.speeds.generateList([{"name":"0.25",id:.25,type:"radio"},{"name":"0.5",id:.5,type:"radio"}, {name:"0.75",id:.75,type:"radio"},{name:"Normal",id:1,type:"radio"},{name:"1.25",id:1.25,type:"radio"},{name:"1.5",id:1. 5,type:"radio"},{name:"1.75",id:1.75,type:"radio"},{name:"2",id:2,type:"radio"}]),this._updateSpeeds()}_updateSpeeds(){ const t=this.plyr.getPlaybackSpeed();this.menu.menus.speeds.updateCurrent(t);let e="Normal";1!==t&&(e=t),this.menu.menus. main.getItem("speeds").updateInfo(e)}_populateCaptions(){const t=this.plyr.getAvailableCaptions(),e=this.menu.menus.main. getItem("captions");this.menu.menus.captions.clearList(),t.length<2 this._testHideSize()?e.hide():e.show(),2===t.length? e.showToggle():e.hideToggle();const n=[];t.forEach((t=>{n.push({name:t.label.charAt(0).toUpperCase()+t.label.slice(1),id: </pre>													

Source: Packet Capturing by Fiddler Tool

Request Headers												[Raw]	[Header Definition]
GET /1.2.131-release-3285/rbup.min.js HTTP/1.1													
Accept: */*													
Accept-Encoding: gzip, deflate, br													
Accept-Language: en-US,en;q=0.9													
User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/99.0.4844.51 Safari/537.36													
Miscellaneous													
Referer: https://www.redbull.com/													
Security													
Transformer	Headers	TextView	SyntaxView	ImageView	HexView	WebView	Auth	Caching	Cookies	Raw	JSON	XML	
<pre> value:!0}},i.default=void 0;var n=function(){return this.player.getTimeShift();i.default=n},{}},35:[function(e,t,i){ strict";Object.defineProperty(i,"__esModule",{value:!0}),i.default=void 0;var n=function(){return this.player.getVRStatus()};i.default=n},{}},36:[function(e,t,i){ strict";Object.defineProperty(i,"__esModule",{value:!0}),i.default=void 0; var n=function(){return this.player.vr.getStereo();i.default=n},{}},37:[function(e,t,i){ strict";Object. defineProperty(i,"__esModule",{value:!0}),i.default=void 0;var n=function(...e){return this.states=this.states?this. states:{verbosePlayerSize:null},this.states.verbosePlayerSize=e.length?e[0]:this.states.verbosePlayerSize,this.getSt verbosePlayerSize};i.default=n},{}},38:[function(e,t,i){ strict";Object.defineProperty(i,"__esModule",{value:!0}),i. default=void 0;var n=function(e=null){return e?this.vidMeta[e]:this.vidMeta};i.default=n},{}},39:[function(e,t,i){ strict";Object.defineProperty(i,"__esModule",{value:!0}),i.default=void 0;var n=function(e=null){return e?this.vidProps[e] :this.vidProps};i.default=n},{}},40:[function(e,t,i){ strict";Object.defineProperty(i,"__esModule",{value:!0}),i. default=void 0;var n=function(){return this.player.getVideoBufferLength();i.default=n},{}},41:[function(e,t,i){ strict";Object.defineProperty(i,"__esModule",{value:!0}),i.default=void 0;var n=function(){return this.player. getVideoElement();i.default=n},{}},42:[function(e,t,i){ strict";Object.defineProperty(i,"__esModule",{value:!0}),i. default=void 0;var n=function(){return this.player.getVideoQuality();i.default=n},{}},43:[function(e,t,i){ strict"; Object.defineProperty(i,"__esModule",{value:!0}),i.default=void 0;var n=function(){return this.player.getVolume();i. default=n},{}},44:[function(e,t,i){ strict";Object.defineProperty(i,"__esModule",{value:!0}),i.default=void 0;var n= _t(e("./destroy")),a=_t(e("./fastForward")),r=_t(e("./load")),u=_t(e("./pause")),o=_t(e("./play")),s=e("./prefix"),l=_t(e("/rewind")),d=_t(e("./seek")),c=_t(e("./stop")),f=_t(e("./unload")),v=_t(e("./ad/imaAdManagerReady")),h=_t(e("./ad/ scheduleAd")),p=_t(e("./ad/skipAd")),g=_t(e("./get/getAudio")),_=t(e("./get/getAudioBufferLength")),y=_t(e("./get/ getAudioQuality")),E=_t(e("./get/getAutostart")),b=_t(e("./get/getAvailableAudio")),P=_t(e("./get/ getAvailableAudioQualities")),O=_t(e("./get/getAvailableCaptions")),m=_t(e("./get/getAvailableVideoQualities")),S=_t(e("./ get/getBufferPercentage")),M=_t(e("./get/getCaption")),A=_t(e("./get/getDuration")),N=_t(e("./get/getEl")),T=_t(e("./get/ getManifest")),C=_t(e("./get/getMaxTimeShift")),j=_t(e("./get/getPlaybackSpeed")),D=_t(e("./get/getPlaybackVideoData")),L= </pre>													

Source: Packet Capturing by Fiddler Tool